

Special Issue

Energy System Planning and Design

Message from the Guest Editors

Regional comprehensive energy systems are the physical manifestation of energy Internet at park level. They can provide users with cold, thermal, electricity, and other energy applications through an efficient utilization of various renewable energy sources and realize the system multi-energy complementary and generation network load storage coordination. However, multienergy flows such as cold, thermal, and electricity in the system have their own physical characteristics, and the network constraints are complex and nonlinear. Identifying how to coordinate the output of each unit to reduce the operating cost of the system, improve the efficiency of renewable energy utilization, and eliminate the uncertainty of supply and demand sides has become an important issue that urgently needs to be solved. Therefore, it is of great practical significance to study the planning and operation of regional integrated energy systems.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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